

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/582,920	06/13/2006	Michinori Shinkai	03500.112333	9223	
5514 7590 03082010 FTTZPATRICK CELLA HARPER & SCINTO 1290 Avenue of the Americas			EXAM	EXAMINER	
			TALBOT, BRIAN K		
NEW YORK, NY 10104-3800		ART UNIT	PAPER NUMBER		
				•	
			MAIL DATE	DELIVERY MODE	
			03/08/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/582,920 SHINKAI ET AL. Office Action Summary Examiner Art Unit Brian K. Talbot 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 16 November 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 20-22 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 20-22 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/SB/08)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application.

Art Unit: 1792

 The amendment filed 11/16/09 has been considered and entered. Claims 1-19 have been canceled. Claims 20-22 remain in the application.

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. In light of the amendment filed 11/16/09, the 35 USC 103 rejection over JP 11-163,499 has been withdrawn. However, the following rejection has been necessitated by the amendment. The 35 USC 112 rejection has also been withdrawn.
- 4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonohylousness.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

Application/Control Number: 10/582,920

Art Unit: 1792

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 103

 Claims 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furusawa et al. (7,285,305).

Furusawa et al. (7,285,305) teaches a multilayered wiring board and method of producing the multilayered wiring board. Furusawa et al. (7,285,305) teaches polyamide insulating layers (22) between the wiring layers and an interlayer conducting post (18) for conducting between wiring pattern (17) and the wiring pattern (31) wherein the insulating layer is disposed around the conducting post (18) using a liquid drop discharge system (abstract). Looking at the Figs, conductive wirings (17) are formed with conductive posts (18) and then insulating layer is formed surround the posts (18). Then wiring layers (31) and posts (32) are formed that connect to the wiring layer (17) and insulating layer (33) is applied to surround the post (32).

Furusawa et al. (7,285,305) fails to teach first forming the insulating portion of the first layer and then the conductive layer but teaches the reverse of this process.

While the Examiner acknowledges the fact that the claimed invention teaches process steps of forming the conductor and then insulator patterns as opposed to forming the insulator and then conductive patterns, it is the Examiner's position that one skilled in the art at the time the invention was made would have had a reasonable expectation of achieving similar success

Application/Control Number: 10/582,920

Art Unit: 1792

regardless of which layer was applied first and which layer was applied subsequently as long as both conductive and insulative layers are formed within the same layer as claimed.

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Brian K. Talbot whose telephone number is (571) 272-1428. The
examiner can normally be reached on Monday-Friday 8AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian K Talbot/ Primary Examiner, Art Unit 1792